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| **Test Case No** | **Trace to Requirement** | **Preconditions** | **Test Input/ Test Steps** | **Test output** | **Pass/fail** |
| 1 | FREQ-1 | Valid URL:  Localhost:8080/dpa/login | 1. Click “NewUser? Register” link | The user should be redirected to registeration page  Localhost:8080/dpa/register | pass |
| 2 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the Name field and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for Name with a message required | pass |
| 3 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the Email field and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for Email with a message required | pass |
| 4 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the Role field unselected and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for Role with a message required | pass |
| 5 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the UserName field and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for UserName with a message required | pass |
| 6 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the Password field and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for Password with a message required | pass |
| 7 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Leave the RetypePassword field and fill all the remaining fields  3.click register | The user should stay on the same register page.  The screen should prompt for RetypePassword with a message required | pass |
| 8 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Fill the Name with less than 5 characters or more than 20 characters and focus out to fill other fields | The user should stay on the same register page.  The screen should display an error message in red saying “Name should be 5 to 20 characters length” | pass |
| 9 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2.Enter the email without the “@”, “.” symbol each at once and fill in all the other fields.  3.click register | The user should stay on the same register page.  The screen should prompt with a message incorrect email format | pass |
| 10 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2. Fill the UserName with less than 5 characters or more than 20 characters and focus out to fill other fields | The user should stay on the same register page.  The screen should display an error message in red saying “UserName should be 5 to 20 characters length” | pass |
| 11 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2. Fill the password and ReTypePassword field with less than 5 characters or more than 15 characters or with special characters and focus out to fill other fields | The user should stay on the same register page.  The screen should display an error message in red saying “Password length should be between 5 to 15 characters. It should not contain special characters” | pass |
| 12 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2. Fill the password and ReTypePassword field with different values.  3.Click Register | The user should stay on the same register page.  The screen should display an error message in red saying “Password Mismatch” | pass |
| 13 | FREQ-1 | Valid URL:  Localhost:8080/dpa/register | 1.open registration page  2. Fill all the fields as per the requirement with no errors.  3.Click Register | The user should be directed to the login page, with a message “Registered Successfully, please login” displayed on the top of the login page in green | pass |
| 14 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the URL localhost:8080/dpa/login in the web browser | The user should be directed to the login page | Pass |
| 15 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the UserName  2.Enter the password  3. Select role values not present int the data base  4.Click login | The user should stay on the login page with an error message “invalid credentials” displayed in red | Pass |
| 16 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the UserName  2.Enter the password present in the database  3. Select role not matching the username and password  4.Click login | The user should stay on the login page with an error message “invalid credentials” displayed in red | Pass |
| 17 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the UserName present in the database  2.Enter the password wrong  3. Select correct role for the username entered  4.Click login | The user should stay on the login page with an error message “invalid credentials” displayed in red | Pass |
| 18 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the UserName wrong  2.Enter the password present in the database  3. Select correct role of for the password entered  4. Click login | The user should stay on the login page with an error message “invalid credentials” displayed in red | Pass |
| 19 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the UserName with special characters and focus out | The user should stay on the login page with an error message “UserName should not contain special characters” displayed in red | Pass |
| 20 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the username with no errors  2.Enter the password with special characters and focus out | The user should stay on the login page with an error message “password should not contain special characters” displayed in red | Pass |
| 20 | FREQ-2 | Valid URL:  Localhost:8080/dpa/login | 1.Enter the username with no errors  2.Enter the password with no errors  3.select the correct role for entered username and password.  4. click login | The user should be redirected to the home page of the role chosen.  If role = admin should be redirected to admin page  If role = admin specialist should be redirected to admin specialist home  If role = student should be redirected to student home  If role = professor should be redirected to professor home | Pass |
| 21 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Admin Specialist | The screen should display:  Delete Admin Specialist  Update Admin Specialist  Add Admin Specialist  Buttons to the right of the select box | pass |
| 22 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Associate Chair | The screen should display:  Delete Associate Chair  Update Associate Chair Add Associate Chair  Buttons to the right of the select box | pass |
| 23 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Chair | The screen should display:  Delete Chair  Update Chair  Add Chair  Buttons to the right of the select box | pass |
| 24 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Students/Professors | The screen should display:  Delete Students/ Professors  Update Students /Professors  Buttons to the right of the select box | pass |
| 25 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Admin Specialist  3.Click Add Admin Specialist | The user should be redirected to the Add Admin Specialist page where admin has fields to add admin specialist | pass |
| 26 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Associate Chair  4.Click Add Associate Chair | The user should be redirected to the Add Associate Chair page where admin has fields to add associate chair | pass |
| 27 | FREQ-3 | Valid admin login | 1.Login with admin role  2.click the manage users select box on the admin home  3.choose Manage Chair  4.Click Add Chair | The user should be redirected to the Add Chair page where admin has fields to add chair | pass |
| 28 | FREQ-5 | Valid student login | 1. Login with student role  2.Click on StaffDirectory link in the menu bar | The user should stay on same page and be presented with a professor list having SendRequest button to the right of professor details | pass |
| 29 | FREQ-5 | Valid student login | 1. Login with student role  2.Click on StaffDirectory link in the menu bar  2.Click on SendRequest button  3. Click on StaffDirectory link in the menu bar | The request should be sent to the appropriate professor and user should be redirected to the home page.  The student should be given the professor list with the professor to whom request is already sent deleted. | pass |
| 30 | FREQ-5 | Valid student login | 1. Login with student role  2.Click on SentRequests link in the menu bar | The user should stay on same page and be presented with the requests sent by him to the professors | pass |
| 31 | FREQ-5 | Valid student login | 1. Login with student role  2.Click on SentRequests link in the menu bar  3.Click Delete Request  4. Click on SentRequests link in the menu bar | The request sent to the professor should be deleted and user should be redirected to the home page  The student should find the sent request list with the deleted request deleted from the sent request list | pass |
| 32 | FREQ-8 | Valid Professor Login | 1. Login with professor, chair or associate chair role  2.Click on the received requests link present in the menu bar | The professor should be presented with the list of student details who sent the requests and with “Accept Request” and “Reject Request” buttons beside each request. | pass |
| 33 | FREQ-8 | Valid Professor Login | 1. Login with professor, chair or associate chair role  2.Click on the received requests link present in the menu bar  3.Click Accept Request button | The user should be present redirected to the home page where the accepted request student list is displayed. | pass |
| 34 | FREQ-8 | Valid Professor Login | 1. Login with professor, chair or associate chair role  1.Click on the received requests link present in the menu bar  2.Click Reject Request button | The user should be redirected to the home page with that particular request rejected and removed from the list. | pass |
| 36 | FREQ-6 | Valid Student Login | 1.Login using student role  2.Click “Start New Degree Plan” button | The student should be redirected to the degree plan form where students have all the fields required for the degree plan | pass |
| 37 | FREQ-6 | Valid Student Login | 1.Login using student role  2.Click “Start New Degree Plan” button  3.Fill all the fields like, Name, student Id, Local address and rest leaving one field each time | The student should be present in the same page with the message required for the missed-out field | pass |
| 38 | FREQ-6 | Valid Student Login | 1.Login using student role  2.Click “Start New Degree Plan” button  3.Fill all the fields like, Name, student Id, Local address and rest leaving any of the grade field for the courses  4.Click save | The same degree plan page should be reloaded with a message degree plan successfully saved message displayed on the top in green color | pass |
| 39 | FREQ-6 | Valid Student Login | 1.Login using student role  2.Click “Start New Degree Plan” button  3.Fill all the required fields and non-mandatory fields as per the requirement  4. click save | The same degree plan page should be reloaded with a message degree plan successfully saved message displayed on the top in green color | pass |
| 40 | FREQ-7 | Valid Student Login | 1.Login using student role  2.Click “Start New Degree Plan” button  3.Fill all the required fields and non-mandatory fields as per the requirement  4. click submit | The same degree plan page should be reloaded with a message degree plan successfully submitted message displayed on the top in green color | pass |
| 41 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details | The professor should be presented with the student’s degree plan, where professor have “accept degree plan” and “reject degree” plan buttons | pass |
| 42 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on accept degree plan button | The professor should be given an input field to sign and then get a submit to admin specialist button. | pass |
| 43 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on accept degree plan button  4.click on submit to admin specialist button | The professor should be present in the same page with a message “degree plan submitted to admin specialist” in green displayed on the top of the page. | pass |
| 44 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on reject degree plan button | The professor should be redirected to the reject comments page where the professor has a text area where the professor can fill in the suggestions for student to change degree plan. | pass |
| 45 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on reject degree plan button | The professor should be redirected to the reject comments page where the professor has a text area where the professor can fill in the suggestions for student to change degree plan. | pass |
| 46 | FREQ-9 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on reject degree plan button  4.click on submit button on reject comments page | The reject comments page should be reloaded with the message “reject comment successfully submitted” message at the top of the page. | pass |
| 47 | FREQ-11 | Valid professor login | 1.login using professor or chair or associate chair role  2. click “View Degree Plan” button to the right of student details  3.click on reject degree plan button | The professor should be redirected to the reject comments page where the professor has a text area where the professor can fill in the suggestions for student to change degree plan. | pass |
| 48 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role | The home page of admin specialist displays the degree plans submitted by professor to the admin specialist along with the status and “view degree plan” button | pass |
| 49 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan (status - Status with Admin Specialist) | The admin specialist will be redirected to a page where student’s degree plan is displayed and admin specialist should have “submit to associate chair” and reject buttons | pass |
| 50 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan (status - Status with Admin Specialist)  3.Click submit to associate chair button | The admin specialist will be redirected to the home page that has the status of degree plan submitted to associate chair as “with associate chair” | pass |
| 51 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan (status - Associate Chair Approved)  3.Click submit to chair button | The admin specialist will be redirected to the home page that has the status of degree plan submitted to chair as “with chair” | pass |
| 52 | FREQ-12 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan (status - Chair approved)  3.Click send approval notice to student | The same degree plan page will be reloaded with the message “sent approval notice to student” in green on the top of the page | pass |
| 53 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan  3.click reject degree plan | The admin specialist should be redirected to reject comments page | pass |
| 54 | FREQ-11 | Valid Admin Specialist login | 1.login using Adminspecialist role  2.click view degree plan  3.click reject degree plan  4.click submit | The reject comments page will be reloaded with the message “reject comments submitted successfully” displayed on the top of the page | pass |
| 55 | FREQ-13 | Valid login as any user | 1.Login with any user credentials  2.click on the name at the right corner in the menu bar  3.select MyAccount | The user should be redirected to the page where he/she can find all the details like username, name, role and email along with the update button | pass |
| 56 | FREQ-13 | Valid login as any user | 1.Login with any user credentials  2.click on the name at the right corner in the menu bar  3.select MyAccount  4. change any field  5. click submit | The same account details page will be reloaded with the message “account details updated successfully” in green at the top of the page | pass |
| 57 | FREQ-13 | Valid login as any user | 1.Login with any user credentials  2.click on the name at the right corner in the menu bar  3.select MyAccount  4. change any field  5. click submit | The same account details page will be reloaded with the message “account details updated successfully” in green at the top of the page | pass |
| 58 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar | The admin specialist should be redirected to the page with all the degree plan information and update buttons after each field | pass |
| 59 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar  3.change degree plan information and click on update | The same updatedpi page should be reloaded with message “Degree plan information updated successfully” in green on the top of the page | pass |
| 60 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar  3.change core courses of any of the groups and click on update | The same updatedpi page should be reloaded with message “core course updated successfully” in green on the top of the page | pass |
| 61 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar  3.click delete present on the right of any optional course | The same updatedpi page should be reloaded with message “deleted course successfully” in green on the top of the page | pass |
| 62 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar  3.click “add optional course” present at the bottom of the page | The same updatedpi page should be reloaded with a text field to enter the course name and the add button at the right of the text field | pass |
| 63 | FREQ-10 | Valid Admin Specialist login | 1.login with admin specialist role  2.Click on the “UpdateDPI” link present on the menu bar  3.click “add optional course” present at the bottom of the page  3.click add | The same updatedpi page should be reloaded with a message “optional course successfully updated” in green at the top of the page | pass |
| 64 | FREQ-4 | Valid admin login | 1.Login with admin role  2. Click Approve/Reject students/professors | The admin should be presented with a list of students and professors registered to access website and waiting for approval. | pass |
| 65 | FREQ-4 | Valid admin login | 1.Login with admin role  2. Click Approve/Reject students/professors  3.Click Approve User | The same approval list page will be reloaded with a message “user approved successfully” in green on the top of the page | pass |
| 66 | FREQ-4 | Valid admin login | 1.Login with admin role  2. Click Approve/Reject students/professors  3.Click Reject User | The same approval list page will be reloaded with a message “User Rejected successfully” in green on the top of the page | pass |
| 67 | FREQ-14 | Valid URL or any user login | 1.click on contact us link present in the menu bar | The user should be redirected to the contact us page with a set of URL’S | Pass |
| 68 | FREQ-15 | Valid user login | 1.login with student role  2.click view degree plan status | The student should be notified with the status of the degree plan | pass |
| 69 | FREQ-15 | Valid user login | 1.login with student role  2.click view degree plan status  3.click on the download approved degree plan link | The approved degree plan of the student should be downloaded to the default downloads folder | pass |
| 70 | Logout | Valid user login | 1.click on the name present at the right corner on the menu bar  2.click on the logout option in the drop down | The user session should be cleared and user should be redirected to the login page | pass |